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☐ 1. Document ID: US 20080281183 A1

L32: Entry 1 of 27

File: PGPB

Nov 13, 2008

PGPUB-DOCUMENT-NUMBER: 20080281183

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080281183 A1

TITLE: STIMULUS INDUCED ROTARY SATURATION FOR MAGNETIC RESONANCE
FUNCTIONAL IMAGING

PUBLICATION-DATE: November 13, 2008

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wald; Lawrence L.	Cambridge	MA	US
Witzel; Thomas	Cambridge	MA	US
Rosen; Bruce R.	Lexington	MA	US

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KWIC	Draw Desc	Image				

☐ 2. Document ID: US 20080272775 A1

L32: Entry 2 of 27

File: PGPB

Nov 6, 2008

PGPUB-DOCUMENT-NUMBER: 20080272775

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080272775 A1

TITLE: QUANTUM THEORY-BASED CONTINUOUS PRECISION NMR/MRI: METHOD AND APPARATUS

PUBLICATION-DATE: November 6, 2008

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Feng; Derek D.	Tucson	AZ	US

US-CL-CURRENT: 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	RMC	Draw Desc	Image				

☐ 3. Document ID: US 20070252595 A1

L32: Entry 3 of 27

File: PGPB

Nov 1, 2007

PGPUB-DOCUMENT-NUMBER: 20070252595

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070252595 A1

TITLE: Direct Imaging of Neural Currents Using Ultra-Low Field Magnetic Resonance Techniques

PUBLICATION-DATE: November 1, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volegov; Petr L.	Los Alamos	NM	US
Matlachov; Andrei N.	Los Alamos	NM	US
Mosher; John C.	Los Alamos	NM	US
Espy; Michelle A.	Los Alamos	NM	US
Kraus; Robert H. JR.	Los Alamos	NM	US

US-CL-CURRENT: 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 4. Document ID: US 20070241754 A1

L32: Entry 4 of 27

File: PGPB

Oct 18, 2007

PGPUB-DOCUMENT-NUMBER: 20070241754

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070241754 A1

TITLE: Magnetic Resonance Imaging System and Magnetic Resonance Imaging Method

PUBLICATION-DATE: October 18, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hirata; Satoshi	Kodaira		JP
Ochi; Hisaaki	Kodaira		JP

US-CL-CURRENT: 324/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 5. Document ID: US 20060255802 A1

L32: Entry 5 of 27

File: PGPB

Nov 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060255802

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060255802 A1

TITLE: Magnetic resonance imaging apparatus

PUBLICATION-DATE: November 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hirata; Satoshi	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP
Taniguchi; Yo	Kokubunji		JP
Takahashi; Tetsuhiko	Soka		JP
Takeuchi; Hiroyuki	Kashiwa		JP

US-CL-CURRENT: [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 6. Document ID: US 20060197633 A1

L32: Entry 6 of 27

File: PGPB

Sep 7, 2006

PGPUB-DOCUMENT-NUMBER: 20060197633

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060197633 A1

TITLE: Magnetic resonance imaging method and system

PUBLICATION-DATE: September 7, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lee; Ray F.	New York	NY	US

US-CL-CURRENT: [333/231](#); [324/314](#), [333/230](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 7. Document ID: US 20050248343 A1

L32: Entry 7 of 27

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050248343
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050248343 A1

TITLE: Method and MR apparatus for dynamic frequency detection in MR spectroscopy

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kruger, Gunnar	Erlangen		DE
Roll, Stefan	Seigendorf		DE

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KWIC	Draw Desc	Image				

☐ 8. Document ID: US 20040232914 A1

L32: Entry 8 of 27

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040232914
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040232914 A1

TITLE: Two-dimensional magnetic resonance tomographic microscopy

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Barbic, Mladen

San Gabriel

CA

US

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 9. Document ID: US 20020155621 A1

L32: Entry 9 of 27

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155621

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155621 A1

TITLE: Method for evaluating data that are generated with magnetic resonance technology and contain spectroscopic information

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Roell, Stefan	Kleinseebach		DE
Weiland, Elisabeth	Erlangen		DE

US-CL-CURRENT: 436/173

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 10. Document ID: US 20020051751 A1

L32: Entry 10 of 27

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020051751

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020051751 A1

TITLE: Pharmaceuticals and apparatus providing diagnosis and selective tissue necrosis

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mills, Randell L.	Cochranville	PA	US

US-CL-CURRENT: 424/9.361; 534/15, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 11. Document ID: US 7355405 B2

L32: Entry 11 of 27

File: USPT

Apr 8, 2008

US-PAT-NO: 7355405

DOCUMENT-IDENTIFIER: US 7355405 B2

TITLE: Magnetic resonance imaging system and magnetic resonance imaging method

DATE-ISSUED: April 8, 2008

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20070241754 A1	October 18, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hirata; Satoshi	Kodaira			JP
Ochi; Hisaaki	Kodaira			JP

US-CL-CURRENT: [324/307](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date
Reference			Claims	KMC	Draw Desc	Image

☐ 12. Document ID: US 7215119 B2

L32: Entry 12 of 27

File: USPT

May 8, 2007

US-PAT-NO: 7215119

DOCUMENT-IDENTIFIER: US 7215119 B2

TITLE: Method and MR apparatus for dynamic frequency detection in MR spectroscopy

DATE-ISSUED: May 8, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050248343 A1

November 10, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Kruger; Gunnar

Erlangen

DE

Roll; Stefan

Seigendorf

DE

US-CL-CURRENT: [324/312](#); [324/306](#)

Full	Title	Citation	Front	Review	Classification	Date
Reference			Claims	KMC	Draw Desc	Image

☐ 13. Document ID: US 7042216 B2

L32: Entry 13 of 27

File: USPT

May 9, 2006

US-PAT-NO: 7042216

DOCUMENT-IDENTIFIER: US 7042216 B2

TITLE: Two-dimensional magnetic resonance tomographic microscopy

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040232914 A1

November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barbic; Mladen	San Gabriel	CA		US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 14. Document ID: US 6717407 B2

L32: Entry 14 of 27

File: USPT

Apr 6, 2004

US-PAT-NO: 6717407

DOCUMENT-IDENTIFIER: US 6717407 B2

TITLE: Method for evaluating magnetic resonance data containing spectroscopic information, by analysis of a frequency difference between spectrum spikes

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Roell; Stefan Kleinseebach DE
Weiland; Elisabeth Erlangen DE

US-CL-CURRENT: 324/312; 324/309

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 15. Document ID: US 6681132 B1

L32: Entry 15 of 27

File: USPT

Jan 20, 2004

US-PAT-NO: 6681132

DOCUMENT-IDENTIFIER: US 6681132 B1

TITLE: Sodium magnetic resonance imaging used in diagnosing tumors and assessing response to treatment

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katz; Jose	Closter	NJ		
Kline; Richard Paul	Riverdale	NY		
Wu; Edward X.	New York	NY		

US-CL-CURRENT: 600/410; 324/307, 424/9.2, 436/173, 436/63, 436/64

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 16. Document ID: US 6414488 B1

L32: Entry 16 of 27

File: USPT

Jul 2, 2002

US-PAT-NO: 6414488

DOCUMENT-IDENTIFIER: US 6414488 B1

TITLE: Method and apparatus for decoupling magnetic resonance receive coils

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chmielewski; Thomas	Willoughby Hills	OH		

US-CL-CURRENT: 324/311; 324/322

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 17. Document ID: US 6224848 B1

L32: Entry 17 of 27

File: USPT

May 1, 2001

US-PAT-NO: 6224848

DOCUMENT-IDENTIFIER: US 6224848 B1

TITLE: Pharmaceuticals providing diagnosis and selective tissue necrosis using Mossbauer absorber atom

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mills; Randell L.	Cochranville	PA	19330	

US-CL-CURRENT: 424/1.65; 534/10, 534/11, 534/15, 600/1, 600/2, 600/3

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 18. Document ID: US 5317261 A

L32: Entry 18 of 27

File: USPT

May 31, 1994

US-PAT-NO: 5317261

DOCUMENT-IDENTIFIER: US 5317261 A

TITLE: Volume-selective magnetic resonance imaging method and device

DATE-ISSUED: May 31, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Den Hollander; Jan A.	Eindhoven			NL
Luyten; Peter R.	Eindhoven			NL
Van Stapele; Reurt P.	Eindhoven			NL

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 19. Document ID: US 4959612 A

L32: Entry 19 of 27

File: USPT

Sep 25, 1990

US-PAT-NO: 4959612

DOCUMENT-IDENTIFIER: US 4959612 A

TITLE: Method of heteronuclear decoupling in magnetic resonance spectroscopy, and device for determining a spectrum

DATE-ISSUED: September 25, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Luyten; Peter R.	Eindhoven			NL

US-CL-CURRENT: 324/311

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 20. Document ID: US 4797616 A

L32: Entry 20 of 27

File: USPT

Jan 10, 1989

US-PAT-NO: 4797616

DOCUMENT-IDENTIFIER: US 4797616 A

TITLE: High speed NMR spectroscopic imaging method

DATE-ISSUED: January 10, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsui; Shigeru	El Cerrito	CA		
Onodera; Takashi	Koganei			JP
Sekihara; Kensuke	Hachioji			JP
Shiono; Hidemi	Akigawa			JP
Kohno; Hideki	Tokyo			JP

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 21. Document ID: US RE32748 E

L32: Entry 21 of 27

File: USPT

Sep 13, 1988

US-PAT-NO: RE32748

DOCUMENT-IDENTIFIER: US RE32748 E

TITLE: Methods and apparatus of obtaining NMR spectra

DATE-ISSUED: September 13, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ordidge; Roger J.	Nottingham			GB2
Gordon; Robert E.	Southampton			GB2

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 22. Document ID: US 4746863 A

L32: Entry 22 of 27

File: USPT

May 24, 1988

US-PAT-NO: 4746863

DOCUMENT-IDENTIFIER: US 4746863 A

TITLE: Contiguous slices in multi-slice MRI

DATE-ISSUED: May 24, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crooks; Lawrence E.	Richmond	CA		
Feinberg; David A.	Berkeley	CA		
Hoenninger, III; John C.	Oakland	CA		

US-CL-CURRENT: 324/309; 324/314

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 23. Document ID: US 4689566 A

L32: Entry 23 of 27

File: USPT

Aug 25, 1987

US-PAT-NO: 4689566

DOCUMENT-IDENTIFIER: US 4689566 A

TITLE: NMR phase encoding using phase varying rf pulses

DATE-ISSUED: August 25, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Maudsley; Andrew A.	New York	NY		
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US-CL-CURRENT: 324/309; 324/313

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 24. Document ID: US 4531094 A

L32: Entry 24 of 27

File: USPT

Jul 23, 1985

US-PAT-NO: 4531094

DOCUMENT-IDENTIFIER: US 4531094 A

TITLE: Methods and apparatus of obtaining NMR spectra

DATE-ISSUED: July 23, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Ordidge; Roger J.	Nottingham			GB2
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Gordon; Robert E.	Oxford			GB2
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US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 25. Document ID: US 4450408 A

L32: Entry 25 of 27

File: USPT

May 22, 1984

US-PAT-NO: 4450408

DOCUMENT-IDENTIFIER: US 4450408 A

TITLE: Low loss wide band front end for NMR receiver

DATE-ISSUED: May 22, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Tiemann; Jerome J.	Schenectady	NY		
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US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

☐ 26. Document ID: WO 2005000116 A1, JP 2005510992 X, US 20060255802 A1

L32: Entry 26 of 27

File: DWPI

Jan 6, 2005

DERWENT-ACC-NO: 2005-081541

DERWENT-WEEK: 200677

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TITLE: Magnetic resonance imaging apparatus for use in chemical activity observation, measures resonance signals from sample from voxels of resonance spectrum obtained under two different timings to obtain resonant frequencies of water

Full	Title	Citation	Front	Review	Classification	Date		
Reference				Claims	KMC	Draw Desc	Clip Img	Image

☐ 27. Document ID: US 3540047 A

L32: Entry 27 of 27

File: USOC

Nov 10, 1970

US-PAT-NO: 3540047

DOCUMENT-IDENTIFIER: US 3540047 A

TITLE: THIN FILM MAGNETODIELECTRIC MATERIALS

DATE-ISSUED: November 10, 1970

INVENTOR-NAME: HACH RALPH J; WALSER RODGER M

US-CL-CURRENT: 342/1

Full	Title	Citation	Front	Review	Classification	Date
Reference			Claims	KMC	Draw Desc	Image

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Term	Documents
PIXEL	413906
PIXELS	307229
VOXEL	8144
VOXELS	6479
PICTURE	649177
PICTURES	178188
VOLUME	2054559
VOL	1063459
ELEMENT	4254658
ELEMENTS	4026635

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27

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Previous Page

Next Page

Go to Doc#